

**D-19-X**

Total No. of Questions : 11]

Roll No..... 1239

[Total No. of Printed Pages : 2

**HSEIIRKN15**

**6419-X**

**ZOOLOGY**

**(Biology)**

**Time : 1½ Hours]**

**[Maximum Marks : 35**

**(Long Answer Type Questions) 5 Each**

1. Name various methods of "Asexual reproduction". Describe any three of them.

*Or*

Define "Gametogenesis". Describe the microscopic anatomy of "Human Testis".

2. What do you mean by "DNA Fingerprinting" ? Explain in brief "Human Genome Project" and its significance.

*Or*

Explain Hardy-Weinberg's Principle. Add a note on Adaptive radiation.

**(Short Answer Type Questions) 3 Each**

3. Write a short note on "MTP".
4. Name Mendelian disorders in humans. Explain colourblindness in human beings.
5. What is Filariasis ? How is it caused ?
6. Write a short note on Gene therapy.

**HSEIIRKN15-6419-X**

**Turn Over**

**D-19-X**

## (Very Short Answer Type Questions) 2 Each

7. What do you mean by "Amniocentesis" ?
8. What are the problems of Hemophilia ?
9. What is the basic concept of "Immunology" ?
10. What do you mean by "Biosafety issues" ?

## (Objective Type Questions) 1 Each

Do as directed :

11. (i) Expand the term "IVF".
- (ii) The cranial capacity of *Homo sapiens* is 1700 cc. (Say Yes/No)
- (iii) The pairs of chromosomes that are associated with sex-determination are known as ..... (Fill up)
- (iv) The process of vaccination was discovered by :  
 (a) Edward Jenner (b) Robert Koch  
 (c) Louis Pasteur (d) Von-Behring  
 (Choose the correct one)
- (v) Give one word for : "Sufferers with damage to their joints."